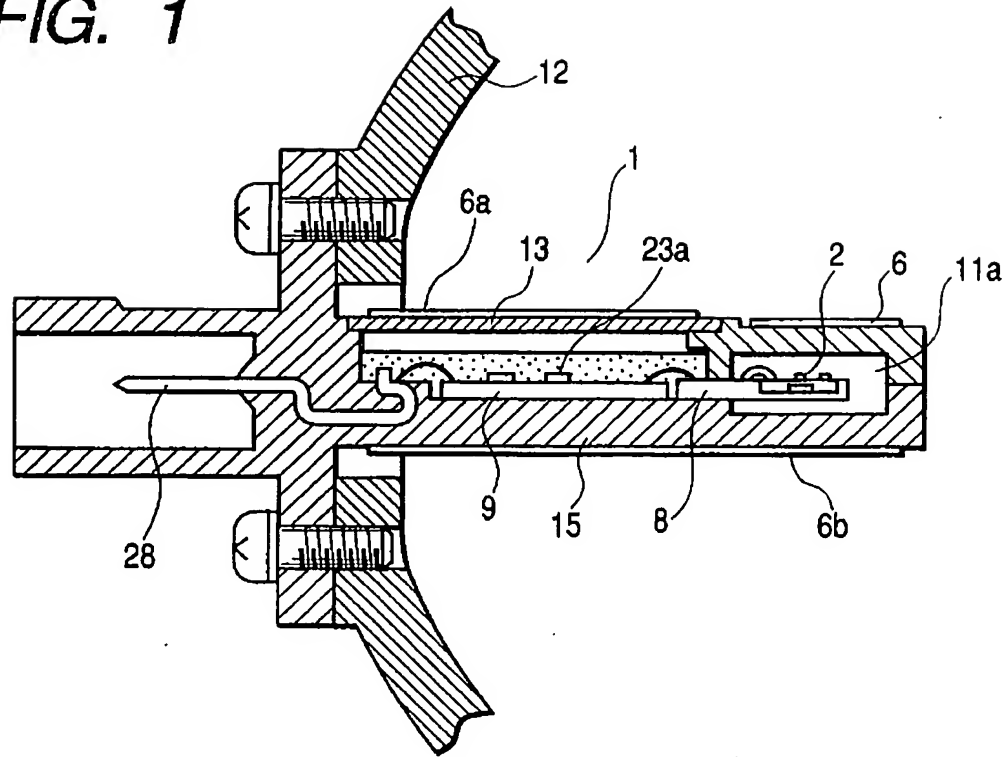
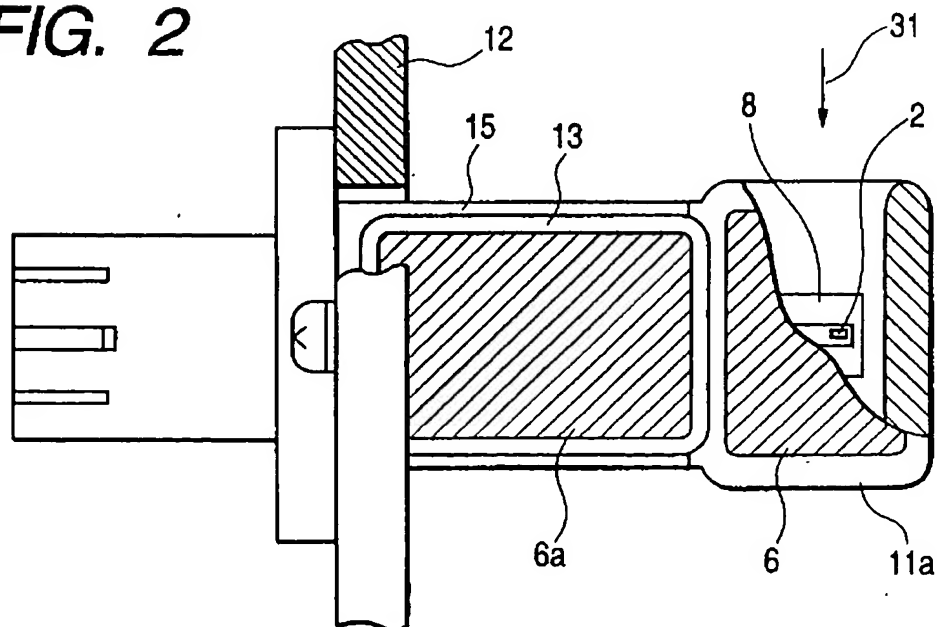


1 / 10

FIG. 1**FIG. 2**

2 / 10

FIG. 3

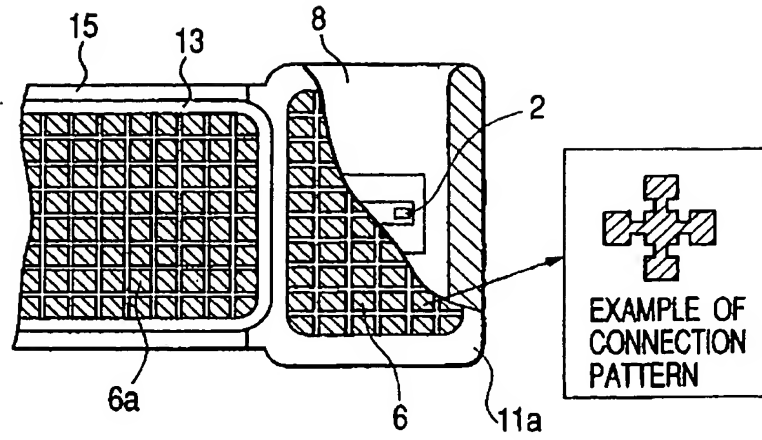


FIG. 4

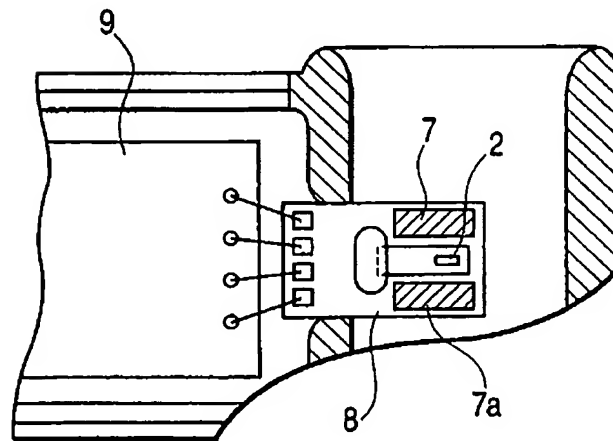
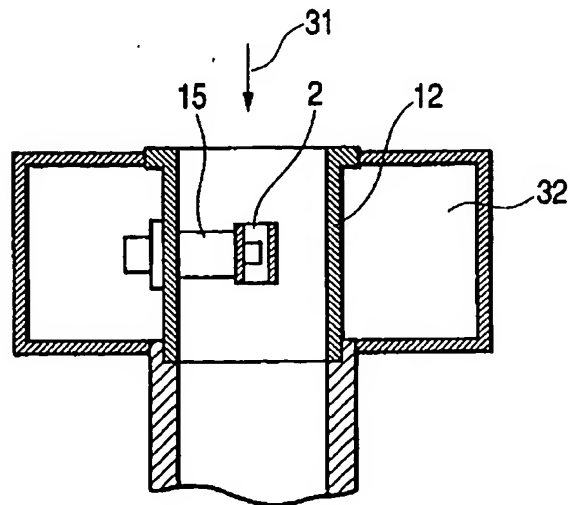
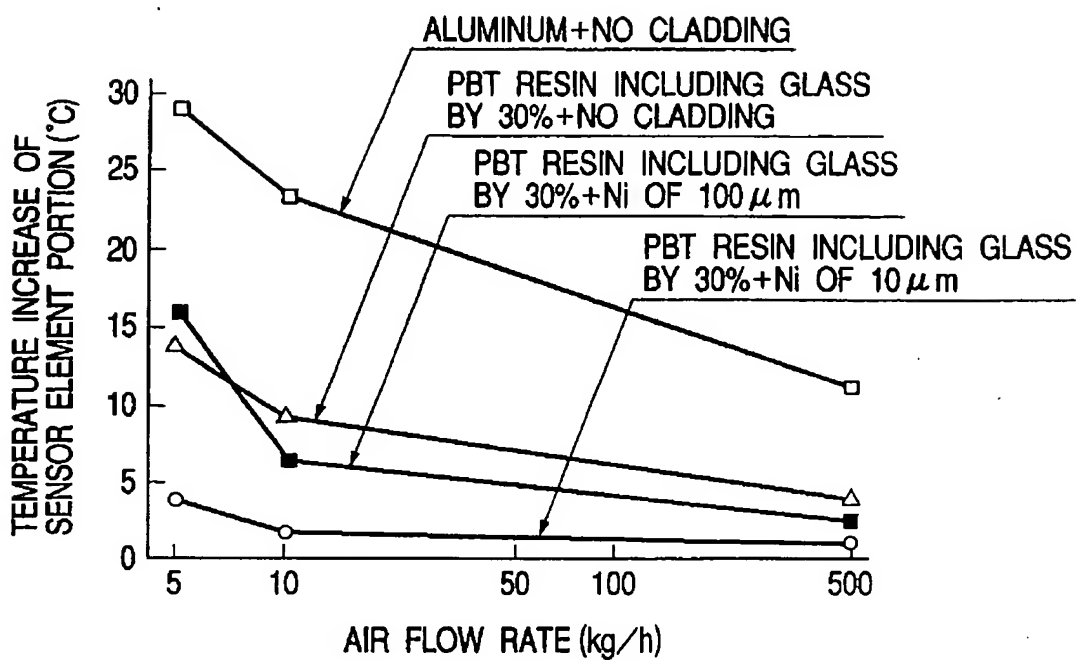
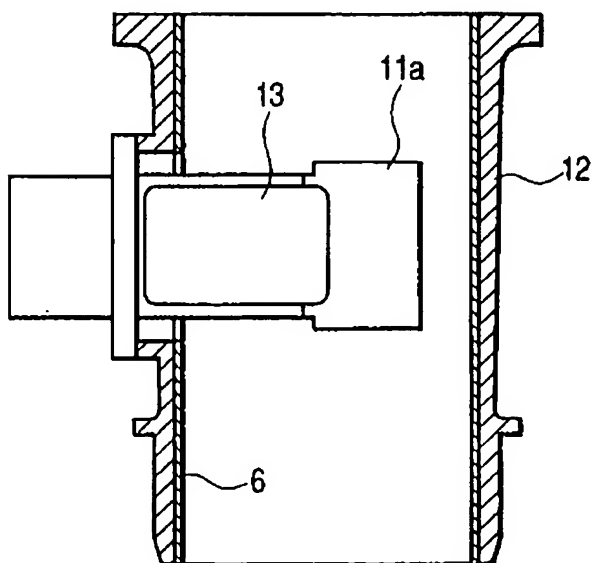


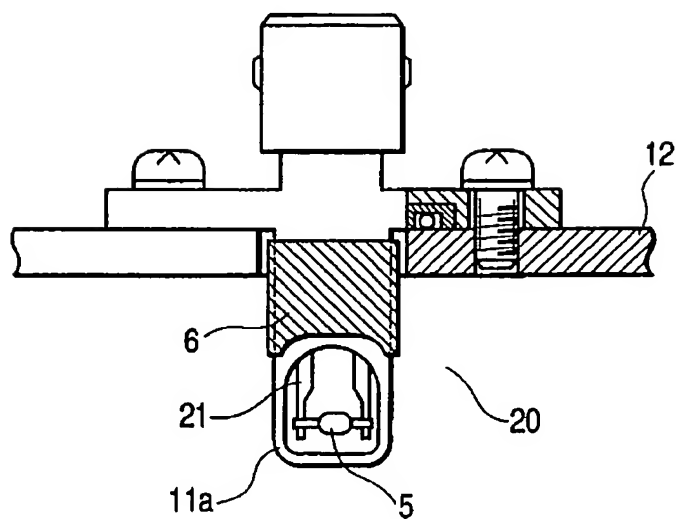
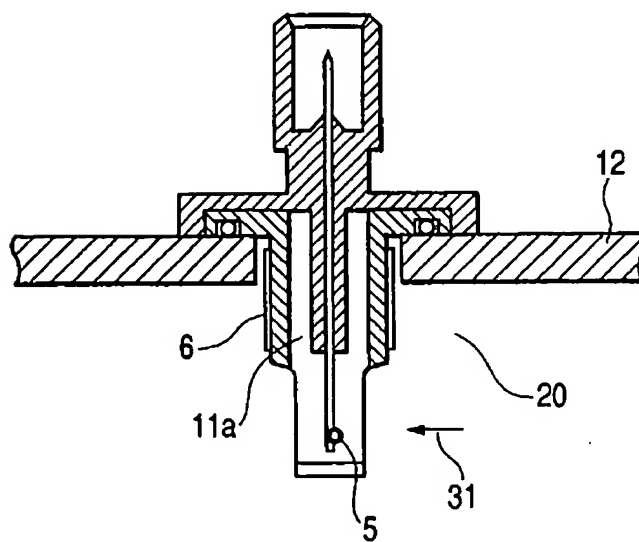
FIG. 5



3 / 10

FIG. 6**FIG. 7**

4 / 10

FIG. 8**FIG. 9**

5 / 10

FIG. 10

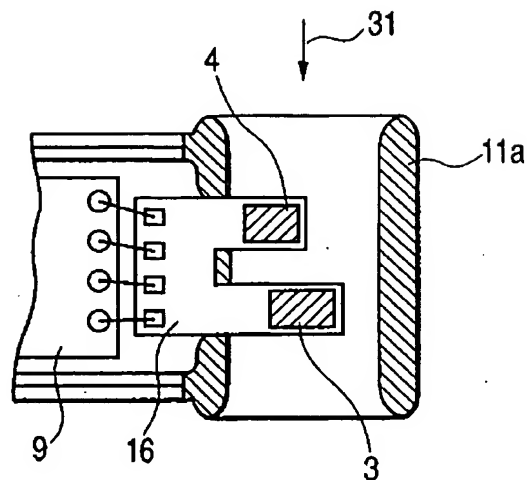


FIG. 11

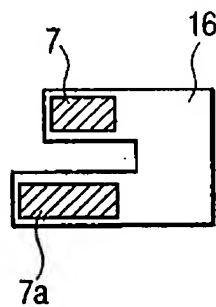
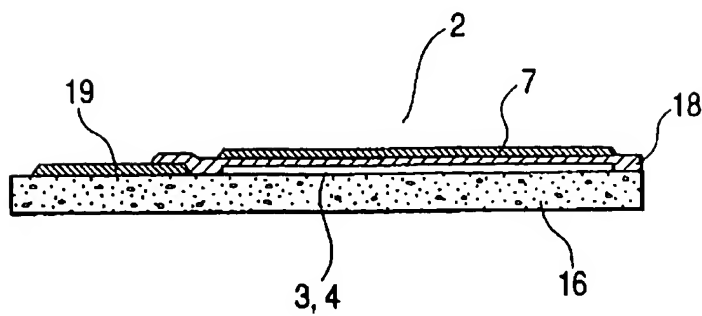
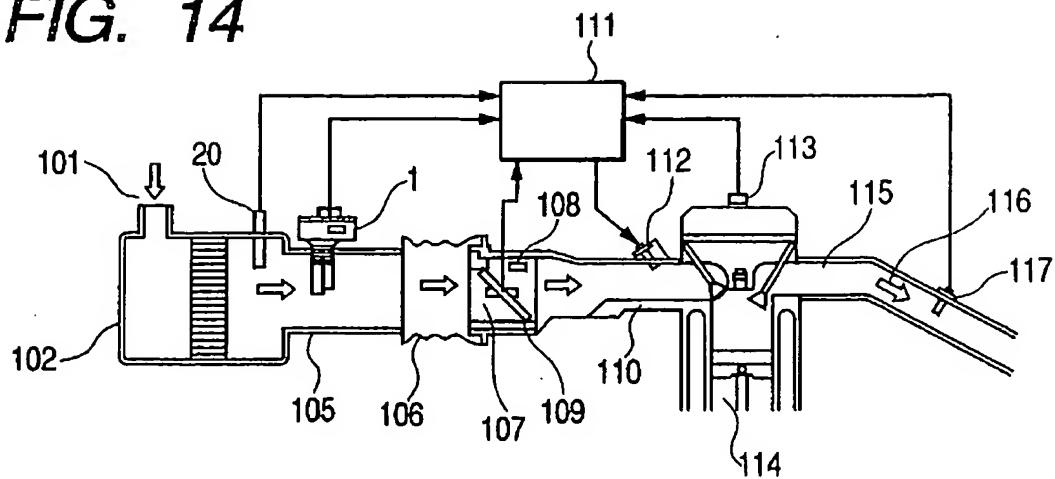
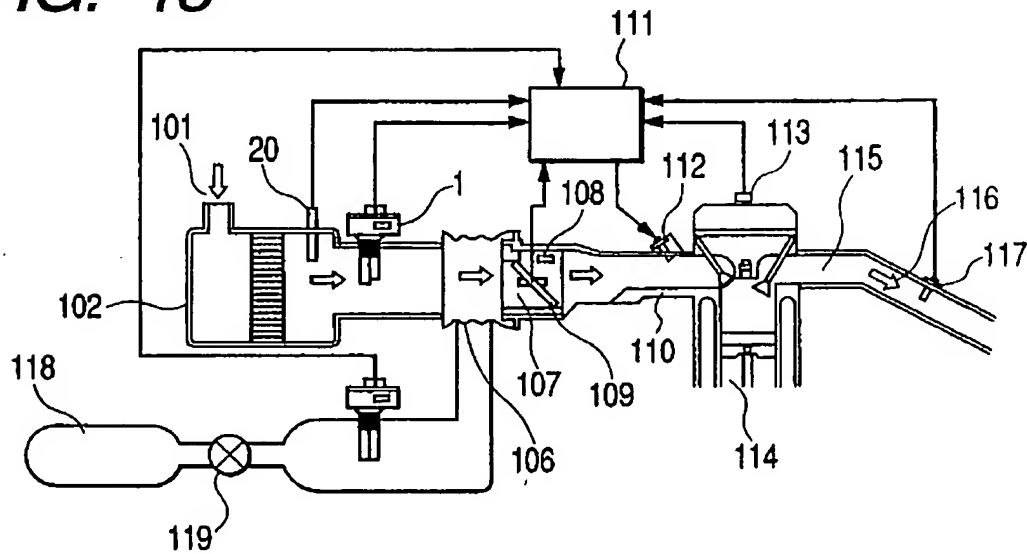
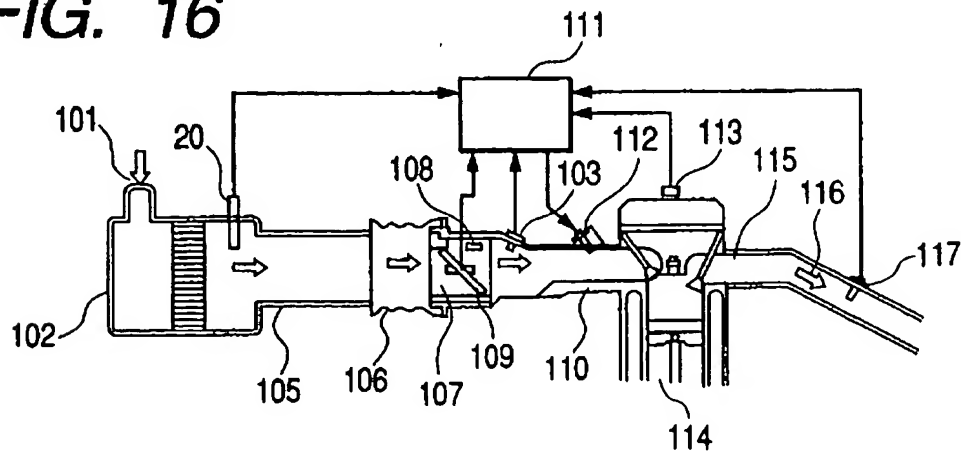


FIG. 12



7/10

FIG. 14**FIG. 15****FIG. 16**

8/10

FIG. 17

No	MATERIAL OF HOUSING MEMBER AND AUXILIARY PASSAGE STRUCTURE MEMBER		EMISSIONITY *1	THERMAL CONDUCTIVITY (w/mk) *2	TEMP. INCREASE OF SENSOR ELEMENT PORTION (°C) *3
	PRIMARY PART	COVER FILM			
1	PBT RESIN INCLUDING GLASS BY 30%	NON	0.94	0.21	14
2	PPS RESIN INCLUDING GLASS BY 50%	NON	0.92	0.27	16
3	PBT RESIN INCLUDING GLASS BY 30%	Ni PLATING 10 μ m	0.16	0.83	3.6
4	PBT RESIN INCLUDING GLASS BY 30%	Ni PLATING 30 μ m	0.16	2.05	4.2
5	PBT RESIN INCLUDING GLASS BY 30%	Ni PLATING 100 μ m	0.16	6.07	15
6	PBT RESIN INCLUDING GLASS BY 30%	Au PLATING 10 μ m	0.12	2.32	5.2
7	ALUMINUM	NON	0.08	236	28

*1: EMISSIONITY MEASURED WITH INFRARED THERMOMETER BY HEATING HOUSING AND AUXILIARY PASSAGE STRUCTURE TO 100 °C

*2: CALCULATED VALUE OF HOUSING AND AUXILIARY PASSAGE STRUCTURE, COVERED WITH FILMS, ASSUMING THAT AVERAGE THICKNESS OF HOUSING MEMBER AND AUXILIARY PASSAGE STRUCTURE MEMBER IS 1.5mm

*3: DIFFERENCE BETWEEN TEMP. OF SENSOR ELEMENT PORTION AND TEMP. OF INTAKE-AIR AT FLOW RATE OF 5kg/h IN TEST FACILITY SHOWN IN FIG. 5

9 / 10

FIG. 18

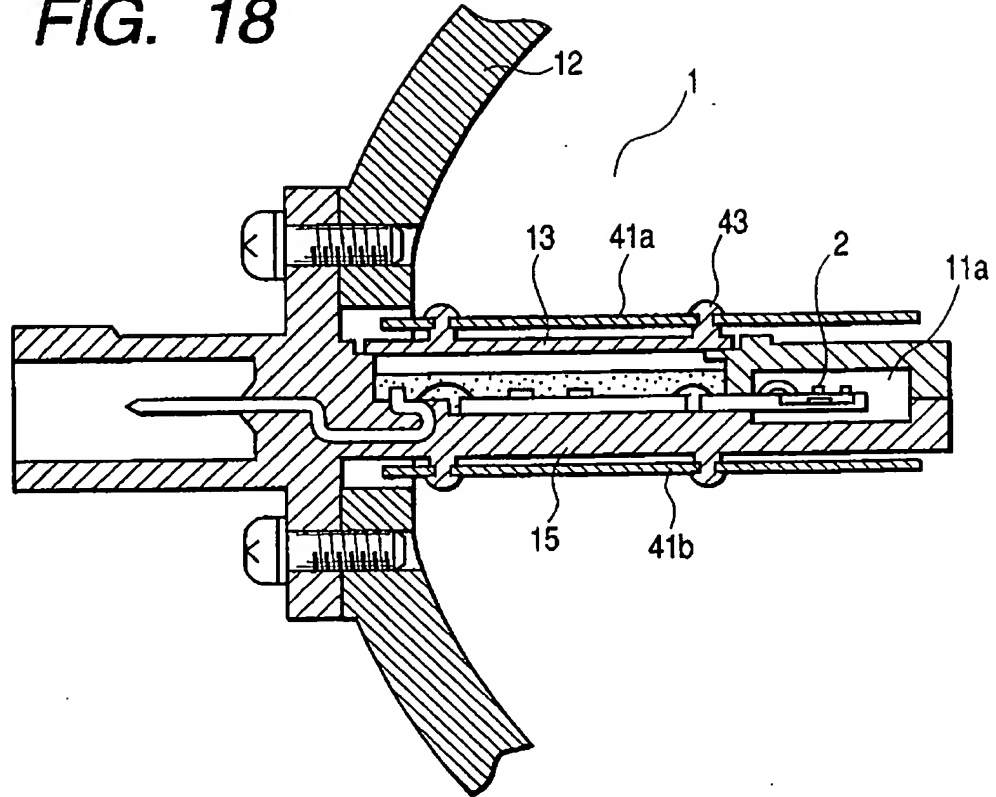
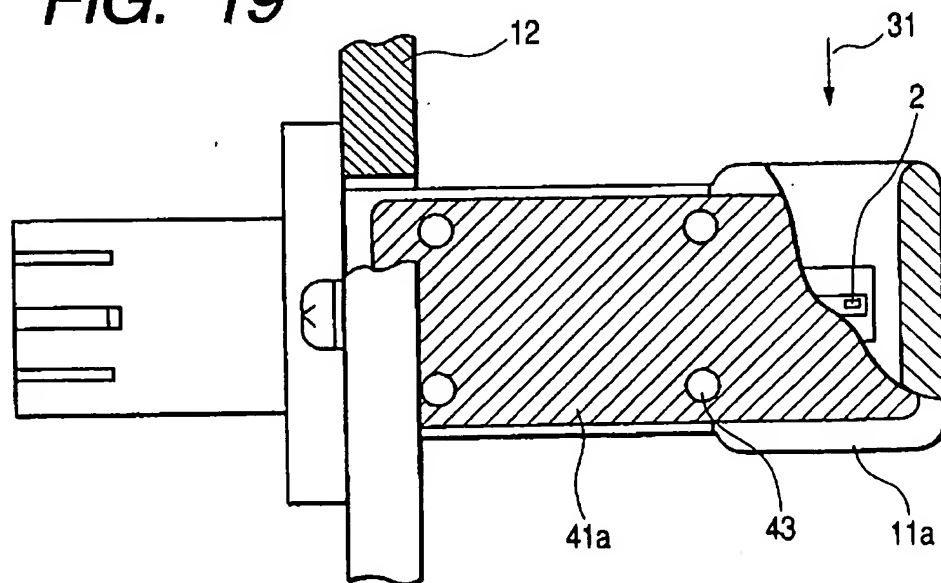


FIG. 19



10 / 10

FIG. 20

